

AMINET110



User Guide V1.0.3

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If you find some points in this user guide unclear then please let us know, so we can improve this documentation.
Thank you! Mail to: documentation@teracue.com

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I. Information about the manual



This user guide is designed to help users to setup and to get to know and understand the AmiNet110 set-top-box. The functionality and the advanced features of the AmiNet110 are described in this documentation.

If you received this publication as a PDF, then it is a good idea to print it out for future reference.

It is best to use this user guide directly in front of your computer, by doing so you try out everything at once.

./! Important features are marked by this sign.

./! The set-top-box configured set by factory default at DHCP, unless otherwise specified in the Teracue STB IP configuration sheets.

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1. Your AmiNet110

Your AmiNet110 IP based set-top-box is a state of the art gateway to the next generation of interactive digital television services. It gives you access to video streaming, video on-demand, multicast video and the World Wide Web on a standard television.

The AmiNet110 is a compact, low-cost digital video set-top box designed for standalone applications and for use with iCue™ publishing systems for delivery of professional DVD-quality video.

The AmiNet110 is simple to setup and use. After unpacking your box should include the following:

- This user guide
- 1 x AmiNet110
- 1 x Power supply
- 1 x Stand
- 1 x IR Remote Control
- 3 x AAA Batteries

And depending of your order either:

- 1 x A/V SCART cable (which is delivered in the Product no. A110-5133)
or
- 1 x A/V RGB/Composite cable (which is delivered in the Product no. A110-5268)
or
- 1 x A/V S-Video/Composite cable (which is delivered in the Product no. A110-5251)

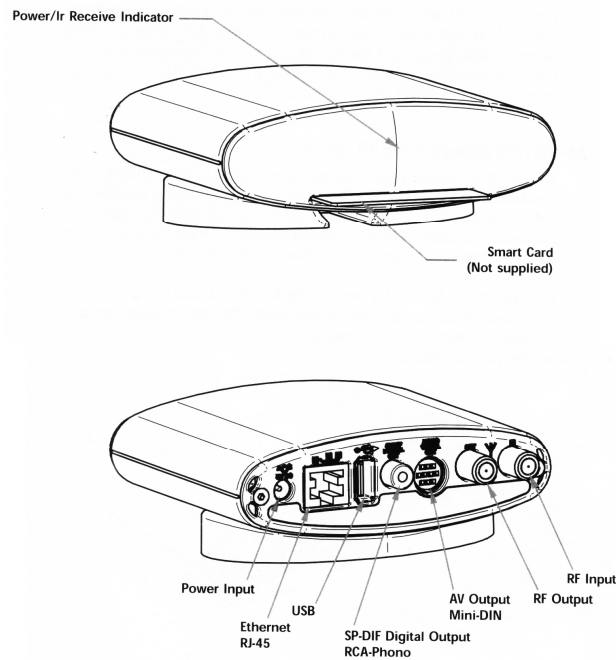
Optional accessories:

- IR keyboard
- A/V S-Video cable
- A/V RGB cable

2. AmiNet110 features

The images below will help you familiarize yourself with the AmiNet110 before you connect it to your output device, such as a plasma display, television set, monitor or a video projector.

The front of the AmiNet110 has a single LED that indicates power and IR reception. While the AmiNet110 is powered the LED will illuminate. During IR reception (when you use the remote control) the LED will flicker to indicate that the product is receiving the signal. The front of the unit also has a slot for SmartCard usage (not supplied).



3. Setup

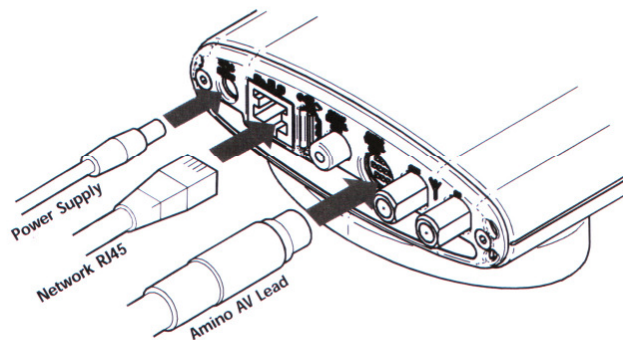
The AmiNet110 can be setup quickly and easily by following these step-by-step instructions.

You can use the A/V SCART cable (supplied) or an RF cable to connect the AmiNet110 to your television. If you have the capability, you can also connect the AmiNet110 to a stereo amplifier via the SP-DIF digital output.

3.1 AmiNet110 connected to TV, no RF

This is the simplest installation and gives access to majority of the functionality of the set-top-box.

- Connect the A/V SCART cable to the AmiNet110 and to your TV.
- Connect the Ethernet cable to the AmiNet110 and to your network.
- Connect the power supply.



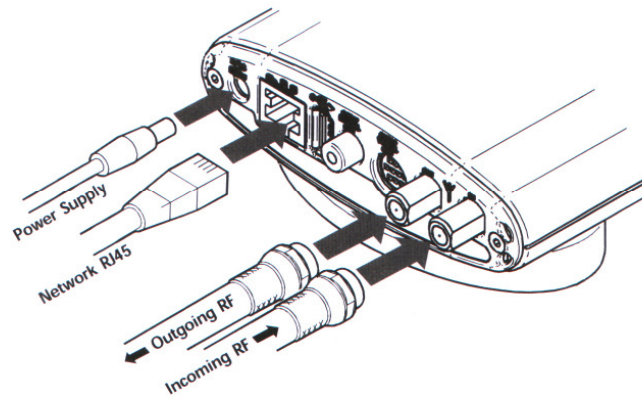
!. The first time it is powered up it is possible that the box will spend a few moments updating itself with the latest software (available from your service provider).

Once completed, the box will navigate to a channel (video stream) or a website (home page) that is entered in the setup menu of the AmiNet110.

3.2 AmiNet110 connected to TV via RF

This scenario should be used if your television has no composite, S-Video or SCART inputs. (Where available it is recommended to connect via composite, S-Video or RGB SCART inputs).

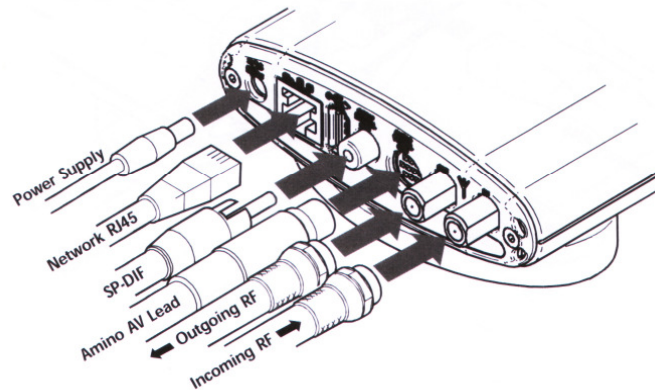
- Connect your incoming RF cable (from your aerial, cable TV box, etc.) to the RF In on the AmiNet110 and connect an RF cable from AmiNet110's RF Out to your television.
- Connect the Ethernet cable to the AmiNet110 and to your network.
- Connect the power supply.



3.3 AmiNet110 connected to TV via Teracue A/V, to amplifier via SP-DIF and to VCR via RF

This scenario gives you access to all the functionality of the AmiNet110. Digital audio is delivered to your home theatre system via SP-DIF, video is delivered to your television via the A/V SCART lead, and your existing RF signal is passed through the AmiNet110 directly to your VCR.

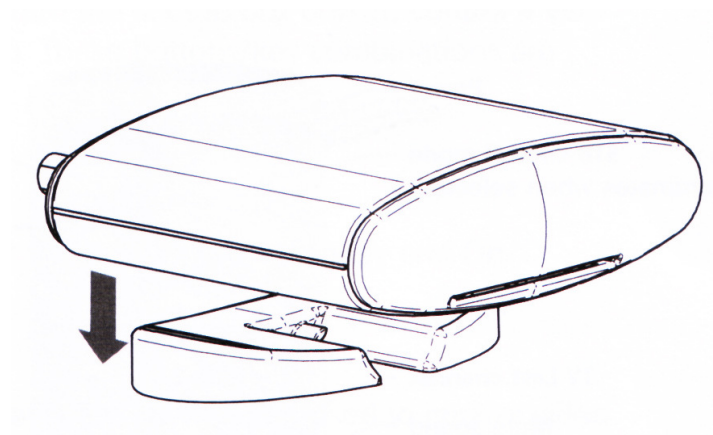
- Connect the A/V SCART CABLE to the AmiNet110 and your television.
- Connect a SP-DIF cable to the AmiNet110 and your digital audio capable amplifier.
- Connect the incoming RF signal from your aerial/cable box to the RF In on the AmiNet110.
- Connect RF cable from the RF Out on the AmiNet110 to the RF Input on your VCR.
- Connect the Ethernet cable to the AmiNet110 and to your service providers Network Access point.
- Connect the power supply.



4. Mounting the AmiNet110

The AmiNet110 can be mounted either horizontally or vertically, and is supported securely in both positions.

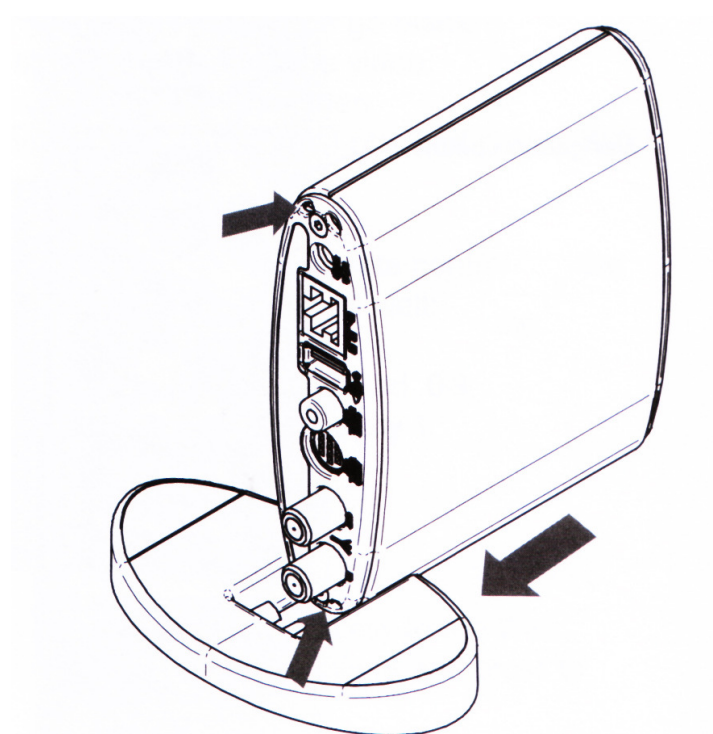
4.1 Horizontal mounting



To mount the unit horizontally simply place it onto the upper surface of the base moulding, which is contoured to reflect the products shape.

The two rubber pads will retain the AmiNet110 in position.

4.2 Vertical mounting

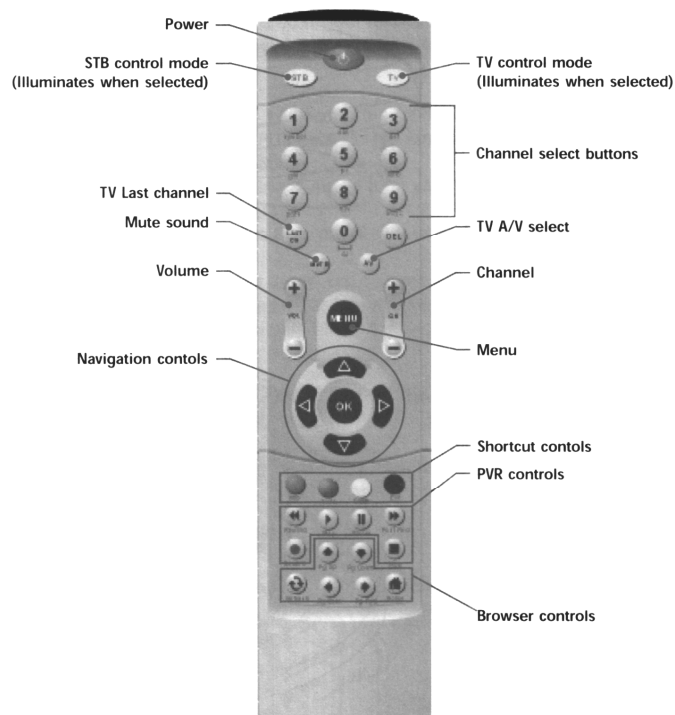


To ensure more stability the AmiNet110 can also be mounted vertically.

At the end of the rear panel moulding there is a pair of elliptical holes which fit onto the two elliptical prongs on the base moulding. Push the AmiNet110 firmly onto the two prongs to mount the product vertically.

5. Using the AmiNet110 remote control

All user interaction with the AmiNet110 is handled via the supplied remote control or with the optional keyboard. The supplied IR remote control is illustrated below:



Buttons and key combinations:

The buttons on the IR remote control and/or key combinations on the keyboard can be used to turn the set top box on/off, control a VoD (Video on-demand) and access the web. These buttons/key combinations are described below.

Turning the set-top-box on/off:

The power button toggles the box between Standby and On.

5.1 Channel Control

In addition to the video on-demand controls, the remote control has the following functions that control video streams (multicast video) as well:

- 0...9 – Change the channel to the number selected.
- CH +/- Increases / Decreases the channel number.
- VOL +/- Increases / Decreases the volume.
- MUTE – Toggles the sound on/off.

5.2 Video Control

The following buttons / keyboard keys can be used to control video on-demand (Only supported by iCue™ systems):

- Stop [■] – Stops video and makes the screen go black.
- REW [◀] – Rewinds the video.
- FF [▶] – Forwards the video.
- Play/Pause [▶ / ||] – Toggles between normal play and pause. Will resume normal play from FF or Rew.

5.3 Web control

The following buttons can be used to control access to the web:

- SELECT – Tilt to move the mouse pointer/highlight and press to select.
- HOME – Display your home page.
- BACK – Return to the previous web page.
- FORWARD – Move to the next web page (if you have previously moved back at least one page).
- PAGE UP – Scroll page up.
- PAGE DOWN – Scroll page down.
- STOP – Abort the attempt to load the requested website.
- RELOAD – Reload the current page to refresh it.

5.4 Changing / resetting the user preferences

Pressing the MENU key takes you to the user preferences page. Enter the new value required and click on the 'Save Changes' button. The user preferences will be changed and a 'Preferences update OK' message will be displayed. You can leave the preferences unchanged by selecting Channel.

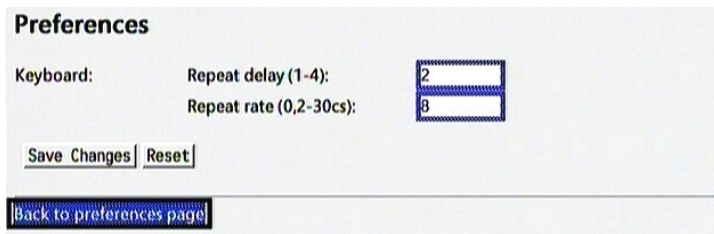
6. Configure user preferences



The screenshot shows a 'Preferences' window with a title bar. Below the title bar, it says 'Choose an option:-'. There are three options listed: 'Keyboard settings' (which is highlighted with a blue selection box), 'TV system and audio settings', and 'Exit preferences'.

For the preferences menu press the '**MENU**' button on your remote control.

6.1 Keyboard settings

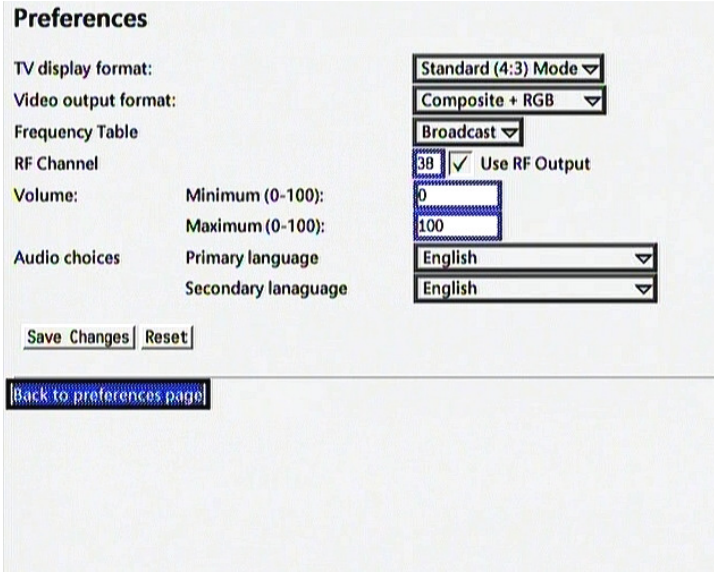


The screenshot shows the 'Keyboard settings' page within the 'Preferences' window. It has a title bar. Below the title bar, it says 'Keyboard:'. To the right of 'Keyboard:', there are two input fields. The first is labeled 'Repeat delay (1-4):' and contains the value '2'. The second is labeled 'Repeat rate (0,2-30cs):' and contains the value '8'. Below these fields are two buttons: 'Save Changes' and 'Reset'. At the bottom of the window, there is a link that says 'Back to preferences page'.

- **Keyboard Repeat Delay Factor** – The time that elapse before characters repeat when you hold down a key. (1-4)
- **Keyboard Repeat Rate** – How quickly characters repeat when you hold down a key. (0.2 – 30cs) A value of 0 means keys will not repeat at all.

..! We recommend the default values: **Keyboard Delay Factor: 4**
Keyboard Repeat Rate: 30cs

6.2 TV system and audio settings



The screenshot shows a 'Preferences' window with the following settings:

- TV display format: Standard (4:3) Mode
- Video output format: Composite + RGB
- Frequency Table: Broadcast
- RF Channel: 38
- Use RF Output: ☒
- Volume: Minimum (0-100): 0, Maximum (0-100): 100
- Audio choices: Primary language: English, Secondary lanaguage: English

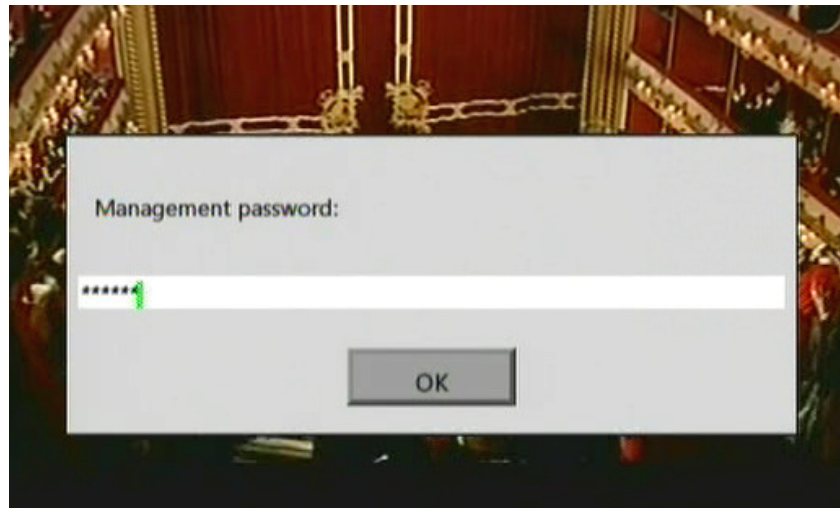
Buttons at the bottom: Save Changes, Reset, and a link Back to preferences page.

- **TV Display format** – There are three choices:
 1. Standard (4:3) Mode – Widescreen content is viewed full screen, some of the picture at the left and right edges will be cropped.
 2. Letterbox mode – Widescreen content is viewed in a letterbox, black bars will be present at the top and the bottom of the picture and the entire width of the transmission is visible.
 3. Widescreen TV – If you have a Widescreen TV (16:9) select this option to properly utilize your TV's geometry.
- **Video output format** – The AmiNet110 is able to provide Composite, S-Video and RGB video output.
- **Frequency Table** – Here you can choose between the broadcast and cable frequency table.
- **RF Channel** – When using RF, you can select a channel where the AmiNet110 will be found on your TV/VCR.
- **Use RF Output**
- **Volume Minimum and Maximum** – These set constraints on the Vol +/- keys. (Not supported due to license issues)
- **Primary Language** – First choice for subtitle selection.
- **Secondary Language** – Second choice for subtitle selection.

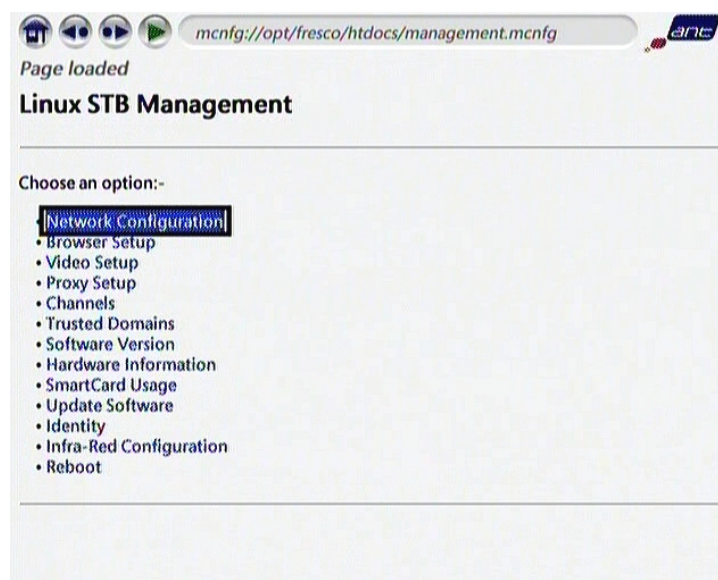
7. Advanced preferences

7.1 Login

Most of the administrative features are found and activated in AmiNet110 Management. To open the AmiNet110 Management, you must use either the optional IR keyboard or a USB keyboard. Press **ALT+M** on the keyboard. This will open a password dialog box.



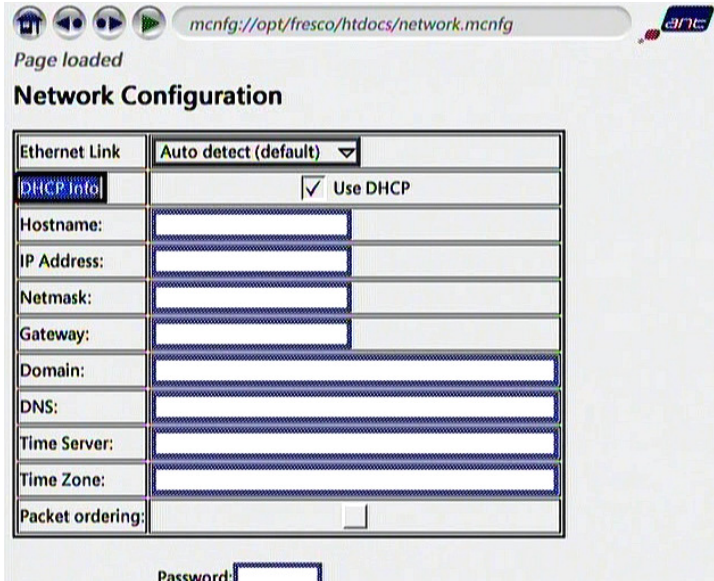
..! Type 'leaves' to enter the AmiNet110 Management.



Here is the list of submenus. The content of these submenus is described in the following chapters.

..! To apply and save all changes, enter the password ('snake') and press the submit button.

7.2 Network Configuration



Ethernet Link: This option enables users to configure the STB's network port characteristics. You can choose between these options:

100MbTX-FD (100 Mbit/s, Twisted Pair, Full Duplex)
100MbTX-HD (100 Mbit/s, Twisted Pair, Half Duplex)
10Mb-FD (10 Mbit/s, Full Duplex)
10Mb-HD (10 Mbit/s, Half Duplex)

This option has been added especially to address specialized network and/or administration requirements.

..! In most cases it is sufficient (and recommended) to leave this setting on AUTO, so the AmiNet110 and the connected switch can deal out the preferred connection on their own. (AUTO is the default link mode setting up to firmware version 0.9.4)

DHCP Info: If there is a DHCP Server in your network you can use dynamic routing. In this case you do not need the settings IP-address, Netmask, Gateway and DNS. For dynamic routing check the button.

If you chose DHCP it is easy to find out your IP-address. Select 'DHCP Info' (so that it is highlighted blue like in the picture above) and press 'Return' and you get the Information about your current IP-address, Netmask, Gateway, and DNS Server.

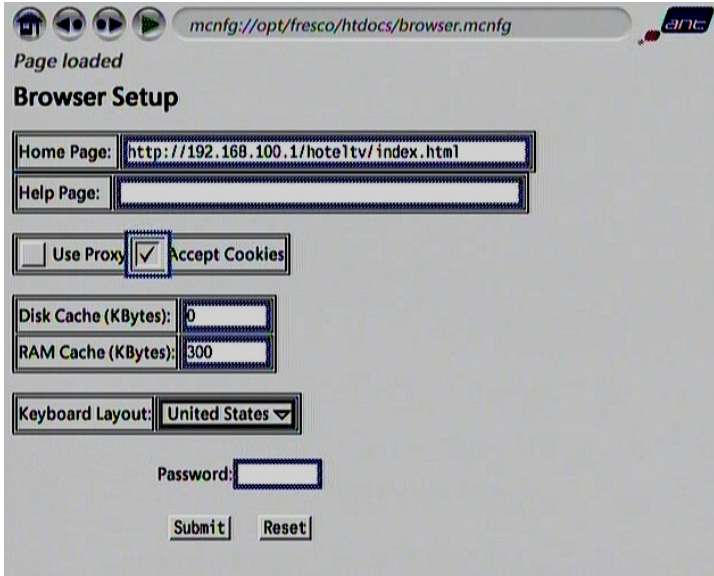
Hostname:* The Hostname is to identify your AmiNet110 in a Network. For Example: 'AmiNet110'
..! Empty spaces cannot be entered

IP Address:* The IP-address is an identifier for your AmiNet110 in the TCP/IP network. Networks use the TCP/IP protocol route messages based on the IP-address of the destination. The format of an IP-address is a 32-bit numeric address written as four numbers separated by periods. Each number can be zero to 255.
For example, 192.168.90.1

- Netmask:* A netmask is a 32-bit mask used to divide an IP-address into subnet and specify the networks available hosts. For example, 255.255.255.0 is the netmask for a class-C IP-address like 192.168.90.1
- Gateway:* The gateway is commonly the address of a network device such as a network router. For example, 192.168.1.1
- Domain: A domain is a group of network resources assigned to a group of users. Domains are commonly used to divide global areas of a corporation and/or corporation departments. A domain may need to be specified when mapping a network computer or drive.
- DNS: The DNS service on a network server that helps to identify domain names. If a domain name is not found within the local database, the server may query other domain server to obtain the address of a domain name. Enter here the IP-address of the DNS Server.
- Time Server: A time server provides a master time for all the clients in your network. Every device will be automatically set to the same time, according to the master reference time. If there is a time server in your network, you can enter the IP-address here.
- Time Zone: For Example: GMT +1
- Packet ordering: Packet reordering is only useful in a network where packet delivery is known to be asynchronous. It should not be used otherwise as it will cause issues.

..! To save all changes enter the password ('snake') and press the submit button.

7.3 Browser Setup



Home Page: This is the address of the site which will open when the AmiNet110 starts up or when the HOME button is pressed. For example: <http://www.teracue.com>

If you want to display the *iCue™ websites* on your *AmiNet110*, please type the following URL in the 'Home Page' text field, but in the yellow marked part of the URL you must set the IP-address of your iCue system:

<http://172.16.116.2/teracue/Amino/login.aspx>

If you want that your AmiNet110 displays directly after booting a stream, you can enter in the 'Home Page' text field the *auto-play string*:

<igmp://239.252.20.100:4444>

(Auto-play string for a multicast stream; But in the yellow marked part of the URL you must set your desired multicast IP-address and the port number which are separated through a colon sign.)

<udp://172.16.30.130:3535>

(Auto-play string for a unicast stream; But in the yellow marked part of the URL you must set the unicast IP-address of your AmiNet110 and the port number which are separated through a colon sign.)

Help Page: This is the address of the site which will open when the HELP button is pressed.

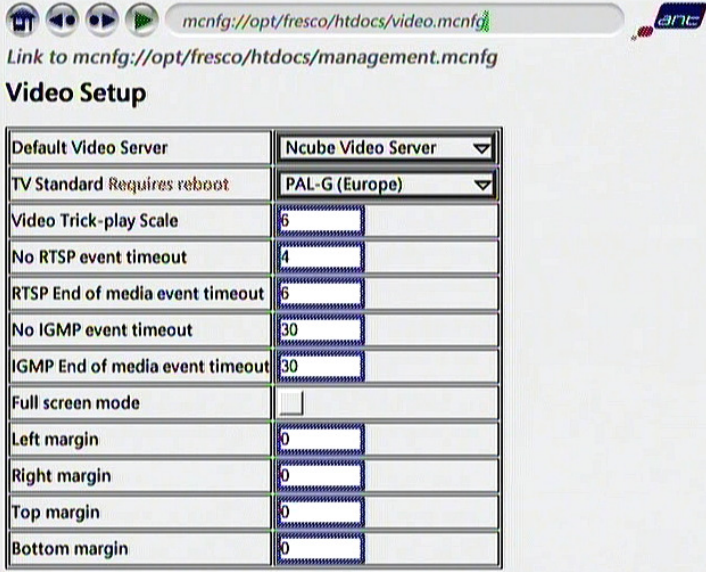
Use Proxy: A Proxy Server is a server that sits between a client application, such as a web browser and a real server. If this button is checked the AmiNet110 will use the proxy server which is configured under proxy setup.
..! When using the AmiNet110 with a iCue™ System, please do not check this option.

Accept Cookies: A cookie is a message given to a web browser by a web server. The Cookies: web browser stores the message in a text file. The message is then sent back to the server each time the browser requests a page from the server. If you want the AmiNet110 to store cookies check this button.
..! We recommend accepting the use and storage of cookies.

Disk Cache:	This should be always be set to 0.
RAM Cache:	Specifies how much memory is to be set aside for caching web pages and graphics. This is a compromise between the memory required to handle very large pages and that kept as cache. For example: 300
Keyboard	<p>This will change your used keyboard layout. You have the choice Layout between United States (QWERTY) and European (QWERTZ) keyboard layout.</p> <p>.!. When using the original IR-Keyboard (optional), use the adjustment 'United States'.</p>

.!. To save all changes, enter the password ("snake") and press the submit button.

7.4 Video Setup



mcnfg://opt/fresco/htdocs/video.mcnfg

Link to mcnfg://opt/fresco/htdocs/management.mcnfg

Video Setup

Default Video Server	Ncube Video Server
TV Standard <i>Requires reboot</i>	PAL-G (Europe)
Video Trick-play Scale	6
No RTSP event timeout	4
RTSP End of media event timeout	6
No IGMP event timeout	30
IGMP End of media event timeout	30
Full screen mode	<input type="checkbox"/>
Left margin	0
Right margin	0
Top margin	0
Bottom margin	0

Default Video Server: The AmiNet110 supports different video servers.

TV Standard: Not all TV receivers work in the same way. Different countries use different types of broadcast TV systems, most of which are to varying extents incompatible with each other. The AmiNet110 is able to output/display NTSC and PAL standards and their sub-standards. Please select your TV standard.
..! Requires reboot

Video Trick – Play Scale: The ratio (2 - 12) of the fast forward and rewind speed to the normal play speed.

No RTSP event timeout: The number of seconds that need to pass before the software should assume that loss of RTSP has occurred.

RTSP End of media event timeout: The number of seconds that need to pass before the software should assume that all the content has been received.

No IGMP event timeout: The number of seconds that need to pass before the software should assume that there is no video joining.

IGMP End of media event timeout: The number of seconds that need to pass before the software should assume that the video is interrupted during playback.

..! We recommend the default values:
Setting the last four options ('No RTSP event timeout', 'RTSP End of media event timeout', 'No IGMP event timeout' and 'IGMP End of media event timeout') to the value '0' means the STB will remain listening indefinitely.

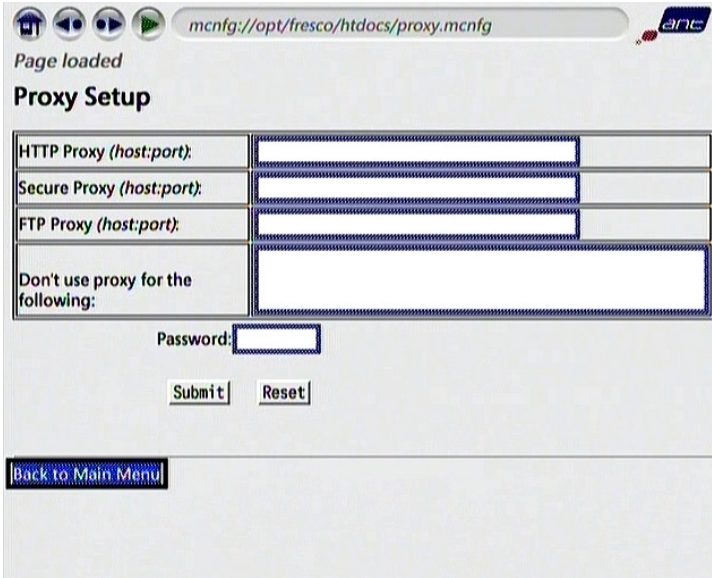
The following options only affect the browser interface. The video output signal will not be changed.

Full screen mode	The full screen mode enlarges the browser to full screen.
Left margin	Percentage of full screen width, the left browser margin (edge) will be cropped.
Right margin	Percentage of full screen width, the right browser margin (edge) will be cropped.
Top margin	Percentage of full screen height, the top browser margin (edge) will be cropped.
Bottom margin	Percentage of full screen height, the bottom browser margin (edge) will be cropped.

.!. **To save all changes, enter the password ('snake') and press the submit button.**

.!. **Any change in the Video Setup menu requires a reboot.**

7.5 Proxy Setup



mcnfg://opt/fresco/htdocs/proxy.mcnfg

Page loaded

Proxy Setup

HTTP Proxy (host:port):	<input type="text"/>
Secure Proxy (host:port):	<input type="text"/>
FTP Proxy (host:port):	<input type="text"/>
Don't use proxy for the following:	<input type="text"/>

Password:

[Back to Main Menu](#)

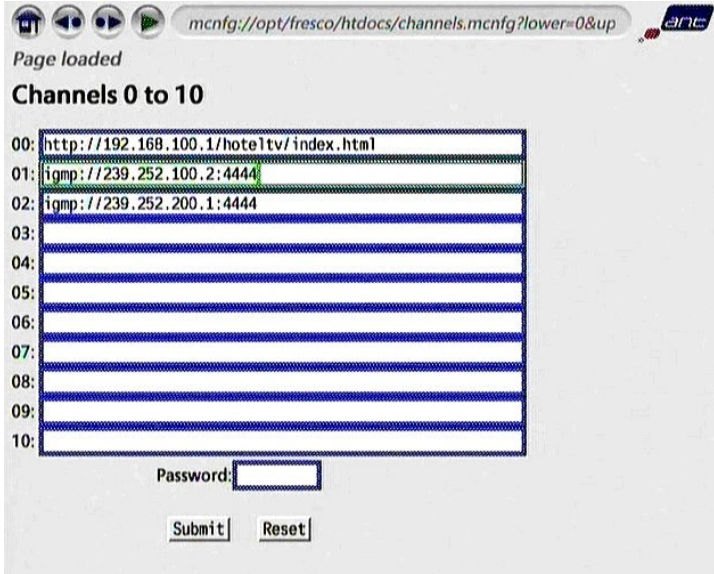
A proxy server is a kind of buffer between your computer and the internet resources you are accessing. Proxies accumulate and save files that are most often requested by many of internet users in a special database called 'cache'.

Therefore, proxy servers are able to increase the speed of your connection. The AmiNet110 supports three kinds of proxy servers: HTTP, HTTPS (secure proxy) and FTP.

Enter the address of the proxy server as the follows: **host:port**
Example: '192.168.90.1:24'

- .!. For loading some sites it is better if no proxy server is used. Under 'Don't use proxy for the following:' you can specify specific sites when the proxy server will not be used.
- .!. To save all changes, enter the password ('snake') and press the submit button.

7.6 Channels



mcnfg://opt/fresco/htdocs/channels.mcnfg?lower=0&up

Page loaded

Channels 0 to 10

00:	http://192.168.100.1/hotelv/index.html
01:	igmp://239.252.100.2:4444
02:	igmp://239.252.200.1:4444
03:	
04:	
05:	
06:	
07:	
08:	
09:	
10:	

Password:

In this menu you can define the channel allocation of the AmiNet110. All together 999 channels are available to you. You can cover the channels either with a website, HTML page or with a video stream (e.g. generated by a Teracue encoder or originating from an iCue™ system).

Syntax for a HTML page:

For example: <http://IP-Address/folder/page.html>
<http://172.16.116.2/teracue/Amino/login.aspx>

Syntax for a video stream: igmp://Multicast-Address:Port

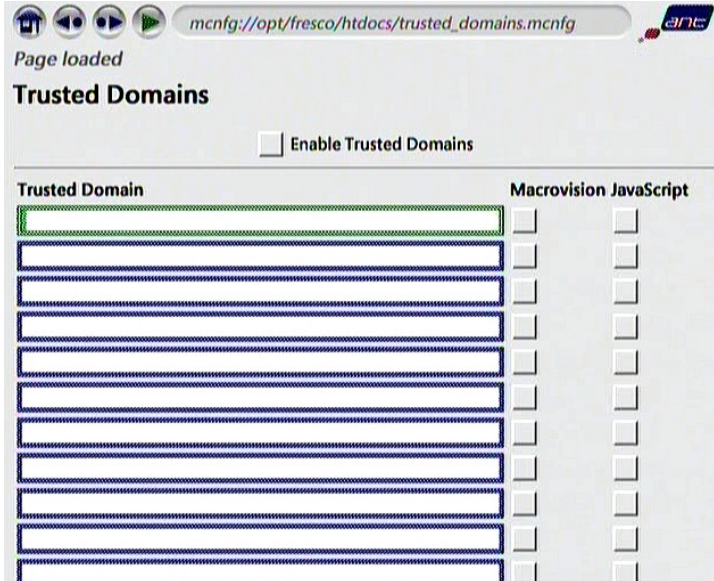
For example: <igmp://239.252.20.100:4444>

Other syntax options include: udp://IP-address_of_your_AmiNet110_for_receiving_UNICAST:Port

For example: <udp://172.16.30.130:3535>

..! To save all your changes, enter the password (**'snake'**) and press the submit button.

7.7 Trusted Domains

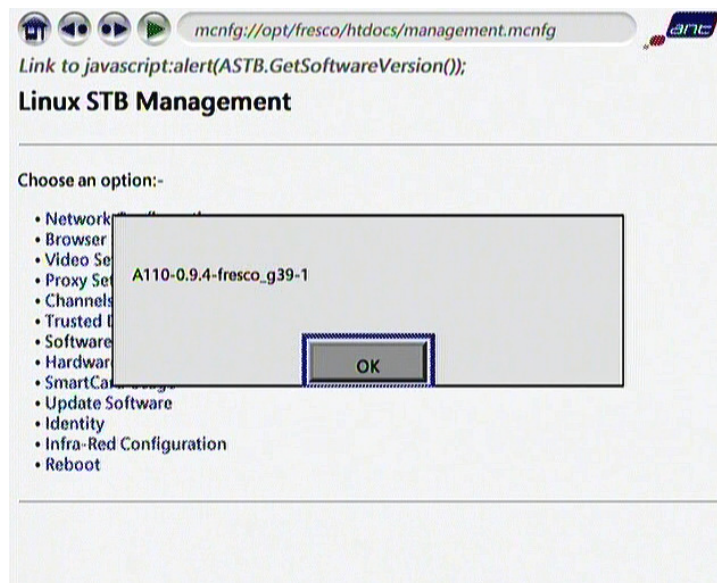


Trusted Domain	JavaScript	Macrovision
<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>

The AmiNet110 supports JavaScript and Macrovision. Under this menu you can specify for which sites you want to admit the use of JavaScript and Macrovision. JavaScript is a compact, object-based scripting language for developing client and server internet applications. Macrovision is a video copy protection method. If it is used the video picture will turn dark and return to normal again in periodic cycles.

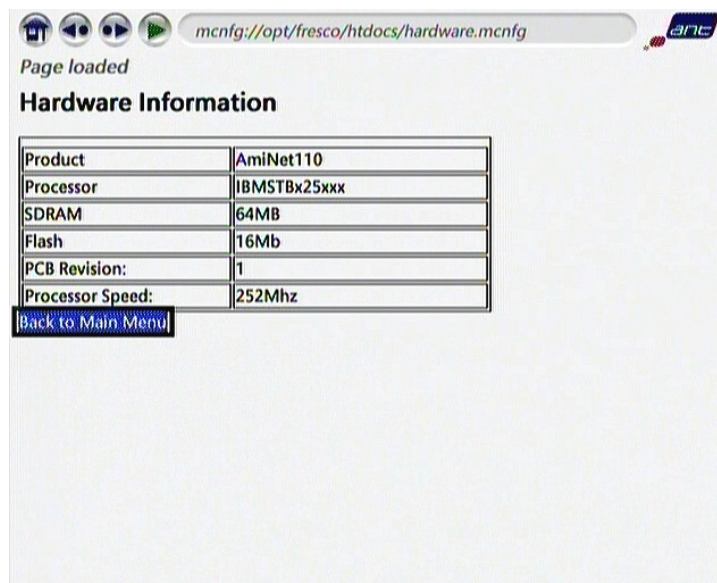
..! To save all changes, enter the password ('snake') and press the submit button.

7.8 Software Version



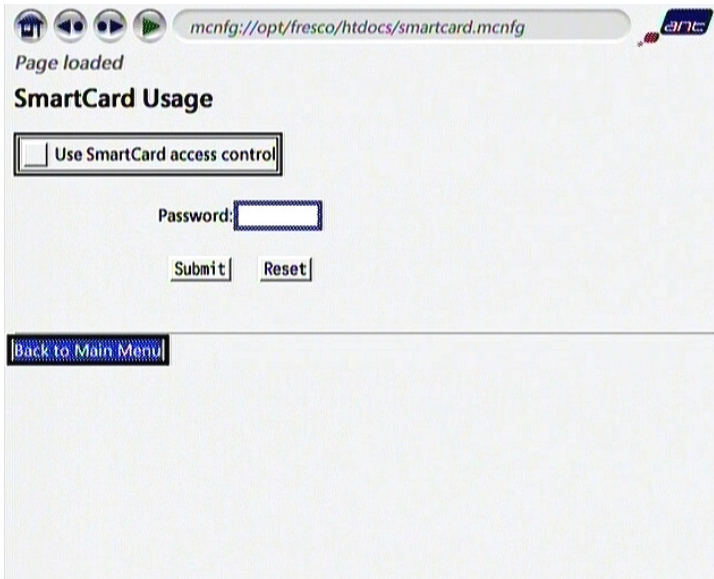
This menu displays information about the firmware version that is installed on your AmiNet110.

7.9 Hardware Information



Under this menu you will find an overview of the hardware components of your AmiNet110.

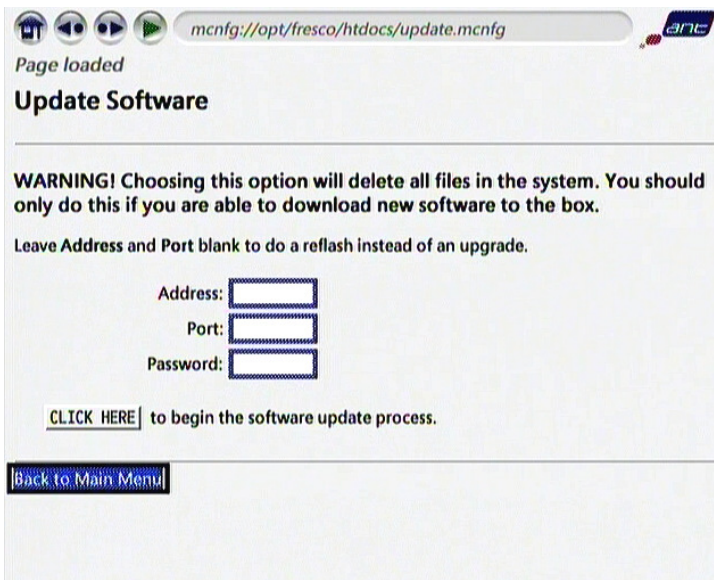
7.10 SmartCard Usage



The AmiNet110 comes with a SmartCard reader. With a SmartCard you can control the access of your set-top-box. If the button is checked a user needs to insert a valid SmartCard in order to use the set-top-box.

- ..! To save all changes, enter the password (**'snake'**) and press the submit button.

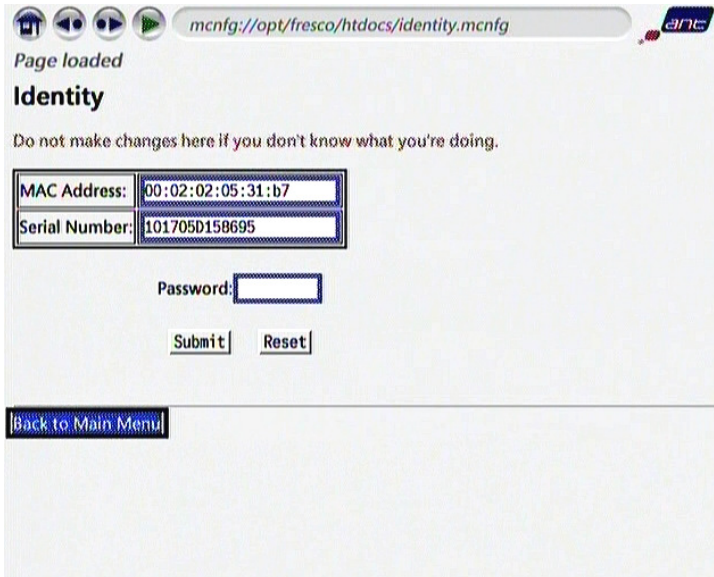
7.11 Update Software



This menu is for updating the software of your AmiNet110.

- ..! Choosing this option will delete all files in the system. You should only use this if you are able to download new software to the box.
- ..! Do not use this function if you do not know exactly what you are doing.

7.12 Identity



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Identity

Do not make changes here if you don't know what you're doing.

MAC Address: 00:02:02:05:31:b7

Serial Number: 101705D158695

Password:

The Identity page provides details about the internal serial number and the MAC Address.

..! **Do not use this function if you don't know exactly what you are doing.**

7.13 Infra-Red Configuration

It is possible to program the STB and the Remote Control so that they are 'paired', allowing several STBs with their Remote Controls to co-exist in the same environment. This is particularly useful in multitrade shows for example, where there may be several STBs receiving IR-signals from several RCs.

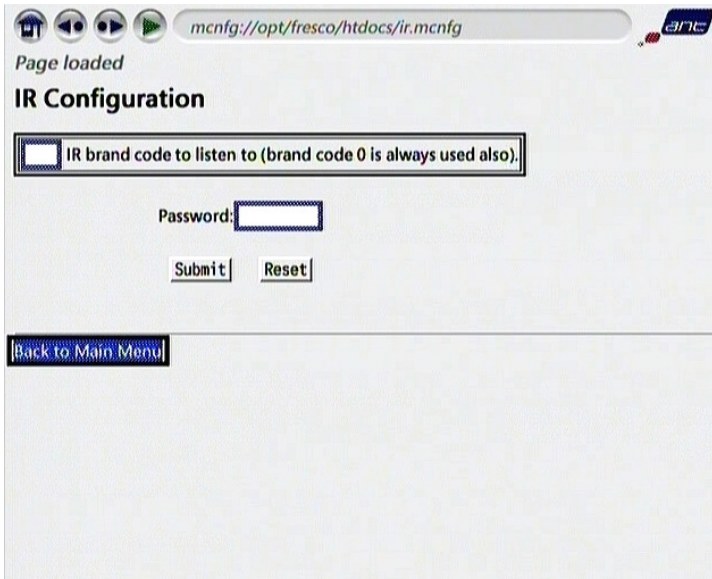
The Remote Control pre-fixes a number (0 to 15) to each STB command. This number is set by default to 0, but can be programmed on the Remote Control itself to another number, 1 to 15. The Set Top Box, providing it is running software release 0.9.0 or later, can also be programmed to respond to codes prefixed with a number in addition to 0. All STBs respond to code 0. Therefore any STB will always respond to a default Remote Control.

Please ask support@teracue.com for the most current IR-code list.

7.13.1 Setting the Remote Control

On the Remote Control, hold down the STB and OK keys until the STB button lights up permanently. Then press the three-digit code corresponding to the chosen code. This number must be in the range 000 to 015. The Remote Control will now pre-fix all STB commands with this code.

7.13.2 Setting the Set Top Box



mcnfg://opt/fresco/htdocs/ir.mcnfg

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IR Configuration

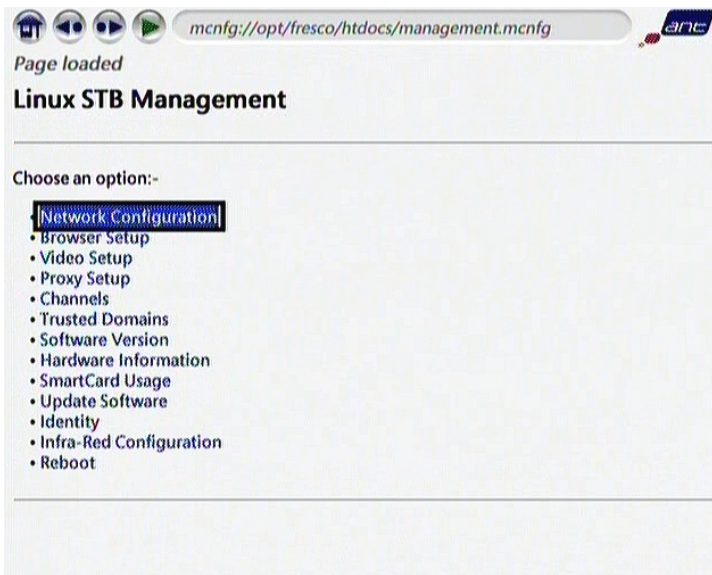
IR brand code to listen to (brand code 0 is always used also).

Password:

To set the additional pre-fix code, go to the Infra Red Configuration page. Set the additional chosen code as a three-digit number (000 to 015). (Note that navigation on this page is sometimes difficult – use the Arrow Keys on your IR Keyboard rather than the Mouse)

Save your choice in the normal way. Your Remote Control is now paired to that STB.

7.14 Reboot



mcnfg://opt/fresco/htdocs/management.mcnfg

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Linux STB Management

Choose an option:-

-
- Browser Setup
- Video Setup
- Proxy Setup
- Channels
- Trusted Domains
- Software Version
- Hardware Information
- SmartCard Usage
- Update Software
- Identity
- Infra-Red Configuration
- Reboot

Clicking on 'Reboot' will reboot the AmiNet110.

8. AV Output/Mini-DIN Pin Assignment

The AmiNet110 is equipped with a Mini-DIN connector on the rear panel that allows a variety of different AV Cable to be supplied to suit the locale and customer. This is designed to allow RGB and CVBS to be present simultaneously. Note that S-Video is multiplexed onto the RGB and CVBS signals. Therefore when S-Video is selected CVBS is disabled.



The assignment of the 10 Pin Mini-DIN is as follows, depending which video output format you have chosen.

Pin	Signal	S-Video + CVBS
1	AUDIO-L	AUDIO-L
2	RGB- STATUS	
3	CVBS/Y	CVBS
4	GND	GND
5	VIDEO- STATUS	
6	RED/C	CHROMA (C)
7	GND	GND
8	AUDIO-R	AUDIO-R
9	GREEN/Y	LUMA (Y)
10	BLUE	

Pin	Signal	RGB
1	AUDIO-L	AUDIO-L
2	RGB- STATUS	
3	CVBS/Y	SYNC
4	GND	GND
5	VIDEO- STATUS	
6	RED/C	RED
7	GND	GND
8	AUDIO-R	AUDIO-R
9	GREEN/Y	GREEN
10	BLUE	BLUE

Pin	Signal	SCART
1	AUDIO-L	AUDIO-L
2	RGB- STATUS	RGB-STATUS
3	CVBS/Y	CVBS/LUMA (Y)
4	GND	GND
5	VIDEO- STATUS	VIDEO- STATUS
6	RED/C	RED/CHROMA (C)
7	GND	GND
8	AUDIO-R	AUDIO-R
9	GREEN/Y	GREEN
10	BLUE	BLUE

9. CE, CSA, FCC conformance



The AmiNet110 is labeled with the CE, CSA and FCC seal.

Operating Environment:	ETS 300-019-1-3 Class 3.1
EMC Conformance:	EN55022. FCC Part 15. (electromagnetic compatibility)
Safety Approvals:	Safety certification to EN60950 (electrical safety requirements), and ELSVD. CE, CB and CSA safety approval.

10. Technical Specifications

Size:	113 x 35 x 110 mm
Weight:	266 Grams
Construction:	One-piece Aluminium Extrusion
Power:	5V, 500mA 2.5 watts 1.75 Watts standby
MTBF:	49,000 hours
CPU:	IBM x25xx SoC, 252 MHz, 350 MIPS Integrated Power PC Architecture
Memory:	OTP protected Boot ROM for Security keys, and Boot Loader system (256K Bytes) 16 Mbytes Flash Memory for software storage. Compressed filing system 64 Mbytes SDRAM for software execution and data
USB:	USB 1.1 host interface with both low speed 1.5 Mbps and full speed 12 Mbps output. 5 Volt 500mA power output with overload protection
Ethernet:	10/100 BaseT with auto sensing and link/activity LED. Max data throughput circa 25 Mbps.
IR Receiver:	Infrared receptor, 56KHz carrier at 900 nm wavelength. Front panel LED indicates activity
Rear panel:	10 Pin Mini-DIN socket (see details and cable options above) S/P-DIF output for 5.1 Dolby RF Input/Output Modulator with loop through, configurable for Standard Definition PAL and NTSC USB Interface Ethernet-Port, RJ-45 Power Input